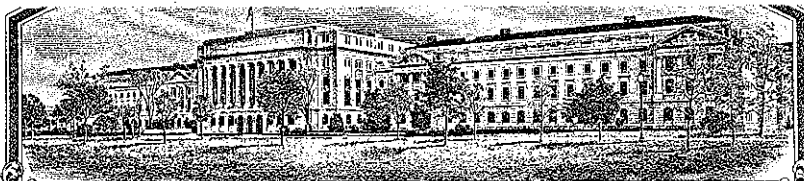


No.



8100012

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Zelder B.V.

Whereas, THERE HAS BEEN PRESENTED TO THE

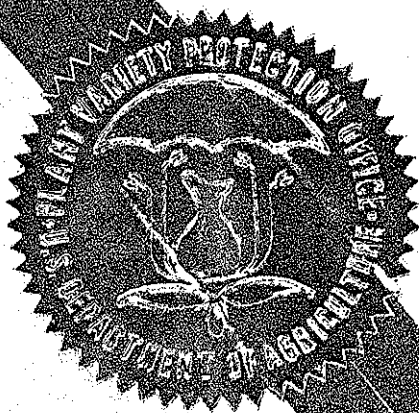
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT OF JULY 1, 1930, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

KENTUCKY BLUEGRASS

'Apart'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 30th day of July in the year of our Lord one thousand nine hundred and eighty-one.

Attest:

*Samuel H. Zeller*

Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*John R. Block*

Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED  
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY Z 63-16		1b. VARIETY NAME APART		FOR OFFICIAL USE ONLY PV NUMBER 8100012	
2. KIND NAME Kentucky Bluegrass		3. GENUS AND SPECIES NAME Poa pratensis		FILING DATE 11/05/80	TIME 11:30 <u>A.M.</u>
4. FAMILY NAME (BOTANICAL) Gramineae		5. DATE OF DETERMINATION November 30, 1975		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 11/05/80 6/1/81
6. NAME OF APPLICANT(S) Zelder b.v.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Landgoed Zelder 1 6595 NW OTTERSUM - The Netherlands		8. TELEPHONE AREA CODE AND NUMBER 08851-8144	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Same as 6			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION The Netherlands		11. DATE OF INCORPORATION 1948
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS:					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☐ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☐ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☒ YES ☐ NO (If "Yes," give name of countries and dates.)

The Netherlands - November 16, 1976  
Belgium - December 19, 1978  
Fed. Rep. of W. Germany, November 28, 1977  
France - December 13, 1978  
United Kingdom - October 4, 1978  
Denmark - January 31, 1980

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☒ YES ☐ NO (If "Yes," give name of countries and dates.)

The Netherlands, April 22, 1980

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO
17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.
- The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.
- Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

October 17, 1980  
(DATE)

C.W. Van Den Bogaert

(SIGNATURE OF APPLICANT)

OCT 2 1980

## INSTRUCTIONS

**GENERAL:** Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

### ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



ZELDER B.V.

6595 NW OTTERSUM - HOLLAND

8100012

APART KENTUCKY BLUEGRASS

PLANT VARIETY PROTECTION EXHIBITS

13 A EXHIBIT A

In 1965 one plant of the species *Poa longnifolia* was crossed with a plant of the *Poa pratensis*-cultivar Prato.

One plant of the F1-progeny of this cross was crossed with the *Poa pratensis* variety Fylking in 1969. In the population, resulting from this cross, plants were harvested individually in 1972 and the progeny of each plant was observed for homogeneity (i.e. apomixis percentage), disease resistance, growth habit, seed characteristics etc.

The progeny of one plant, numbered 63-16, was found to be homogeneous and disease resistant, and had hairless, big seeds. From this progeny multiplication resulted in the variety Apart, after having undergone extensive tests. The variety Apart thus results from one fully apomictic plant. Practically no variants occur.

Dutch registration authorities have considered Apart to be a homogeneous variety.

Stability of the variety has been proved by sending seed of different multiplicative generations to the registration authorities, who compared these generations and concluded that Apart remains stable.

EXHIBIT B

The variety Apart has the following characteristics, by which it can be distinguished from all other Kentucky-bluegrass-varieties:

1. Heading date is very early, about 4 days earlier than Nugget (at Dutch conditions).
2. 10.000 Seeds weigh 4,86 grams, that means seeds are heavier and bigger than those of other varieties.
3. Seeds of Apart are hairless in contrast to all other Kentucky blue grass-varieties known so far; this means far much easier threshing and cleaning of the seed crop.

EXHIBIT C

Objective description form is attached. All data have been collected at the Zelder Plant Breeding Station near Ottersum, The Netherlands.

EXHIBIT D

Additional Description:

Leaf sheath at the base of seedlings are green; the margins of the leaf sheath are hairless. Plants of Apart have a hairless ligule.

Leaf blade is fairly wide, compared to other varieties; no hairs are found on upper nor on lower surface of the leaf blade; there are no hairs on the margins at the leaf blade either.

In seed production Apart is an early maturing variety. Plant height in both later stages of development is rather short.

Flowering and seed head development are good, seed yields are very good. The hairless seeds are an important characteristic of the variety for seed production, because it makes threshing and cleaning of the seed crop much easier.



ZELDER B.V.

6595 NW OTTERSUM - HOLLAND

APART KENTUCKY BLUEGRASS

PLANT VARIETY PROTECTION EXHIBIT B:

NOVELTY STATEMENT

1. The new variety Apart resembles closely the varieties Adorno and Enoble. These two varieties share with Apart the characteristic of having no fringe of hairs at the base of the leaf blade, a characteristic that no other varieties possess, except Delta. Adorno differs from Apart in having a more anthocyanin-coloured leaf sheath in the youth stage; Apart differs from Enoble in having a more erect growth habit than Enoble. Apart has no hairs on the upper side of the leaf blade and seeds are hairless; Adorno and Enoble have no hairless upper leaf blade side and their seeds are not hairless. Delta differs from Apart in seed size, form of the collar at the flowering head, anthocyanin coloration of the leaf sheath and the presence of the hairs on the upper leaf blade side.
2. Varieties that also resemble Apart closely are Monopoly, Glade and Vanessa. These three varieties share with Apart the combination of three characteristics not shared by other varieties: A hairless ligule, a hairless upper side of the leaf blade and no or very weak anthocyanin-colouring of the leaf sheath in the youth stage. The three varieties differ from Apart in having a fringe of hairs at the leaf blade base and in having hairs on the seeds, where Apart has no fringe of hairs and has hairless seeds. The three varieties differ also very significantly from Apart in their heading dates. Heading dates for Apart, Monopoly, Glade and Vanessa are shown for three consecutive years. The date the varieties started heading is expressed as the number of days after march 31. Recordings were done at Wageningen, the Netherlands.

<u>Variety</u>	<u>Year</u>		
	<u>1978</u>	<u>1979</u>	<u>1980</u>
Apart	30	43	32
Monopoly	45	48	47
Glade	47	51	47
Vanessa	50	53	49
LSD 1 %	3,2	2,2	2,9

OBJECTIVE DESCRIPTION OF VARIETY  
BLUEGRASS (POA SPP.)

NAME OF APPLICANT(S) Zelder b.v.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Landgoed Zelder 1 - 6595 NW Ottersum - The Netherlands	PVPO NUMBER 8100012
	VARIETY NAME OR TEMPORARY DESIGNATION APART

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g.,  or ) when number is either 99 or less or 9 or less.

1. KIND:

1 = POA COMPRESSA 2 = P. PRATENSIS 3 = P. TRIVIALIS 4 = OTHER (Specify) \_\_\_\_\_

2. REGION OF BEST ADAPTATION:

1 = NORTHEAST 2 = TRANSITIONAL ZONE 3 = NORTH CENTRAL 4 = PACIFIC N.W. 5 = OTHER (Specify) \_\_\_\_\_

3. MATURITY (At First Anthesis):

1 = EARLY (Delta) 2 = MEDIUM EARLY (Fylking) 3 = MEDIUM (Newport) 4 = LATE (Merion)

<input type="text" value="0"/> <input type="text" value="4"/>	NUMBER OF DAYS EARLIER THAN .....	<input type="text" value="1"/>	} 1 = NUGGET 2 = FYLKING 3 = DELTA 4 = MERION 5 = NEWPORT 6 = BARON
<input type="text" value=""/> <input type="text" value=""/>	NUMBER OF DAYS LATER THAN .....	<input type="text" value=""/>	

4. PLANT HEIGHT (Longest Shoot from Soil Surface to Top of Head):

CM. HEIGHT

<input type="text" value="0"/> <input type="text" value="6"/>	CM. SHORTER THAN .....	<input type="text" value="4"/>	} 1 = NUGGET 2 = FYLKING 3 = DELTA 4 = MERION 5 = NEWPORT 6 = BARON
<input type="text" value=""/> <input type="text" value=""/>	CM. TALLER THAN .....	<input type="text" value=""/>	

5. HABIT:

1 = PROSTRATE (Fylking) 2 = SEMI-PROSTRATE (Merion)  
3 = ERECT (Delta)

6. VEGETATIVE REPRODUCTION (1 = Absent; 2 = Present):

RHIZOMES  STOLONS

7. LEAF BLADE:

Color: 1 = LIGHT GREEN (Rough Bluegrass) 2 = BLUE GREEN (Canada Bluegrass) 3 = MODERATELY DARK GREEN (Merion)  
4 = DARK GREEN (Adelphi) 5 = OTHER (Specify) \_\_\_\_\_

Upper Surface: 1 = SHINY 2 = DULL  Lower Surface: 1 = SHINY 2 = DULL

MM. WIDTH 1  MM. LENGTH

8. LEAF SHEATH (Base):

Seedling Color: 1 = GREEN 2 = RED  MM. LENGTH  Keel: 1 = NOT KEELED 2 = KEELED

Surface:

1 = GLABROUS 2 = PUBESCENT  1 = SMOOTH 2 = ROUGH  1 = NON-GLAUCOUS 2 = GLAUCOUS

9. LEAFINESS (At First Anthesis):

Number of leaves per tiller or shoot: 1 = FEW (1 - 3) 2 = INTERMEDIATE (4 - 6) 3 = MANY (More than 6)

10. PANICLE:

MM. LENGTH

<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	MM. LONGER THAN .....	<input type="text" value=""/>	} 1 = NUGGET 2 = FYLKING 3 = DELTA 4 = MERION 5 = NEWPORT 6 = BARON
<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	MM. SHORTER THAN .....	<input type="text" value=""/>	

OCT 4 1980

## 10. PANICLE (Cont.):

   NUMBER OF PANICLES PER PLANT
   MILLIGRAMS SEED PER PANICLE

 Branches LOWEST WHORL: 1 = DROOPING (Prato) 2 = HORIZONTAL (Merion) 3 = OTHER (Specify) \_\_\_\_\_

 Panicle Habit: 1 = NODDING (Newport) 2 = UPRIGHT (Nugget)   MM. SPIKELET LENGTH

## 11. LEMMA

 KEEL } 1 = GLABROUS 2 = SLIGHTLY PUBESCENT 3 = PUBESCENT 4 = OTHER (Specify) \_\_\_\_\_  
 LATERAL NERVES }

 Intermediate Nerves: 1 = DISTINCT 2 = OBSCURE  Basal Webbing: 1 = NONE 2 = SCANT 3 = COPIOUS

## 12. SEED:

 Apomictin Percentage: 1 = MORE THAN 95 2 = 85 TO 95 3 = LESS THAN 85

 Phenol Reaction: 1 = NONE - LEMMA REMOVED (Merion) 2 = BEIGE (Cougar) 3 = BROWN (Windsor)  
 4 = BLACK (Delta - 2 hours) 5 = BLACK (Anheuser - 24 hours)

   MM. WIDTH    MM. LENGTH    GRAMS PER 10,000 SEEDS   CHROMOSOME NO. (2n)

## 13. TURF DENSITY MAINTENANCE AT ONE INCH CUT:

 1 = POOR 2 = MODERATE (Merion) 3 = SUPERIOR (Nugget) 4 = EXCELLENT

## 14. VERTICAL GROWTH RATE:

 1 = SLOW (Nugget) 2 = MEDIUM (Merion) 3 = FAST (Delta) 4 = OTHER (Specify relation to a standard) \_\_\_\_\_

## 15. SPRING GREEN UP:

 1 = EARLY (Windsor) 2 = MEDIUM (Fylking) 3 = LATE (Nugget)

## 16. FALL DORMANCY: (1 = Not Dormant; 2 = Intermediate; 3 = Dormant)

 NORTHERN ( $42^{\circ} 30' \pm 30'$  Lat.)  INTERMEDIATE ( $40^{\circ} \pm 30'$  Lat.)  SOUTHERN ( $37^{\circ} 30' \pm 30'$  Lat.)

## 17. SEEDLING VIGOR (Growth Rate):

 Seedling: 1 = SLOW 2 = MEDIUM 3 = FAST

## 18. ENVIRONMENTAL RESISTANCE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

<input type="text"/> COOL TEMPERATURE (Winter color)	<input type="text"/> COLD (Injury)	<input type="text"/> HEAT	<input type="text"/> DROUGHT
<input type="text"/> SHADE	<input type="text"/> POOR FERTILITY	<input type="text"/> ACID SOIL	<input type="text"/> ALKALINITY
<input type="text"/> SALINITY	<input type="text"/> SOIL COMPACTION	<input type="text"/> POOR DRAINAGE	<input type="text"/> AIR POLLUTION
<input type="text"/> OTHER (Specify) _____			

## 19. DISEASE, INSECTS, AND NEMATODE RESISTANCE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

<input type="text"/> HELMINTHOSPORIUM VAGANS	<input type="text"/> H. SOROKINIANUM	<input type="text"/> H. DICTYOIDES	<input type="text"/> RHIZOCTONIA SOLANI
<input type="text"/> ERYSIPIHE GRAMINIS	<input type="text"/> USTILAGO STRIIFORMIS	<input type="text"/> FUSARIUM NIVALE	<input type="text"/> F. ROSEUM
<input type="text"/> TYPHULA IOTANA	<input type="text"/> SCLEROTINIA HOMEOCARPA	<input type="text"/> PUCCINIA GRAMINIA	<input type="text"/> P. STRIIFORMIS
<input type="text"/> PYTHIUM ULTIMATUM	<input type="text"/> CRAMBUS BONIFATELLUS	<input type="text"/> OTHER (Specify) _____	

## REFERENCE

Nickerson's or any recognized color fan may be used to determine plant colors of the described variety.

Vol 16, No 1 Jan-March 1988

#### GENERAL INFORMATION

##### Correction to Previous Official Journals:

Plant Variety Protection Certificate No. 8100012 on 'Apart' Kentucky bluegrass was incorrectly shown as voluntarily abandoned in Volume 11, No. 4, page 13 (1983) of the Official Journal, as well as in Volume 11, Index, page 19 (1983) and Volume 13, Cumulative Index, page 92 (1985).

This correction notifies all that the Certificate on 'Apart' is in force.

##### Note on Contents of this Journal:

During this quarter, January 1 through March 31, 1988, there were no applications amended or certificates voluntarily abandoned.



PV#  
CROP KIND  
NAME OF VARIETY  
APPLICANT(S)  
STATUS, ALL OCCS  
DATE STATUS BEGN  
APPLICATION DATE  
APPL. FEE RECVD  
AMOUNT APPL. FEE  
SRCH FEE RECVD  
AMOUNT SRCH FEE  
CERT FEE RECVD  
AMOUNT CERT FEE  
TOTAL OTHER FEES  
TOTAL ALL FEES  
CERT. ISSUE DATE  
ORIGIN  
AUDIT HISTORY

8100012  
 BLUEGRASS, KENTUCKY  
 Apart  
 Zelder B.V., Neth.  
 I  
 07/30/81  
 11/05/80  
 11/05/80  
 250  
 11/05/80  
 250  
 06/01/81  
 250  
 0  
 750  
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 KHE ID 88 05 19 IT 11:52:52

*Correction published*  
*vol. 16 no. 1 Jan-march 1988*  
*page 43*

*corrected Vol. 11 No. 4 Oct-December 1983*  
*page 13 testing as <sup>cert. vol.</sup> abandoned.*

*corrected*  
*Vol. 11 Index Jan-Dec. 1983*

*corrected*  
*Vol 13 Index, Dec - 1985*